97-84017-4

Massachusetts.
Commissioners on...

Special report of the Board

Boston

1917

97-84017-4
MASTER NEGATIVE #

COLUMBIA UNIVERSITY LIBRARIES
PRESERVATION DIVISION

BIBLIOGRAPHIC MICROFORM TARGET

ORIGINAL MATERIAL AS FILMED - EXISTING BIBLIOGRAPHIC RECORD

308
Z
Box 45

Massachusetts. Commissioners on Fisheries and Game.
Special report of the Board ... relative to fish and fisheries of Buzzards Bay. January, 1917. Boston, 1917.
cover-title, 30 p. (House. No. 534)

Volume of pamphlets.

only ed.

RESTRICTIONS ON USE: *Reproductions may not be made without permission from Columbia University Libraries.*

TECHNICAL MICROFORM DATA

FILM SIZE: 35 mm REDUCTION RATIO: 11:1 IMAGE PLACEMENT: IA (IIA) IB IIB

DATE FILMED: 2-7-97 INITIALS: MS

TRACKING # : MSH 20990

FILMED BY PRESERVATION RESOURCES, BETHLEHEM, PA.

BIBLIOGRAPHIC IRREGULARITIES

MAIN ENTRY: Massachusetts. Commissioners on Fisheries and Game.

Special report of the Board

Bibliographic Irregularities in the Original Document:

List all volumes and pages affected; include name of institution if filming borrowed text.

_____Page(s) missing/not available:_____

_____Volume(s) missing/not available:_____

_____Illegible and/or damaged page(s):_____

_____

_____Page(s) or volume(s) misnumbered:_____

_____Bound out of sequence:_____

_____Page(s) or volume(s) filmed from copy borrowed from:_____

_____

X pagination begins with page [7]

_____Other:_____

_____

_____Inserted material:_____

TRACKING#: MSH20990

Gift of the President

HOUSE No. 534

SPECIAL REPORT

308
2
Aug 45

OF THE

BOARD OF COMMISSIONERS ON FISHERIES AND GAME

RELATIVE TO THE

FISH AND FISHERIES OF BUZZARDS BAY.

JANUARY, 1917.

BOSTON:
WRIGHT & POTTER PRINTING CO., STATE PRINTERS,
32 DERNE STREET.
1917.

MR & Rec 17

The Commonwealth of Massachusetts.

COMMISSIONERS ON FISHERIES AND GAME,
STATE HOUSE, BOSTON, Jan. 10, 1917.

To the Honorable Senate and House of Representatives.

We herewith transmit a special report upon the extended investigation of the fishery conditions in Buzzards Bay, as ordered by chapter 31, Resolves of 1916.

Respectfully submitted,

WILLIAM C. ADAMS, *Chairman.*
GEORGE H. GRAHAM.
ARTHUR L. MILLETT.

The Commonwealth of Massachusetts.

CHAPTER 31, RESOLVES OF 1916.

RESOLVE RELATIVE TO THE FISH AND FISHERIES OF BUZZARDS BAY.

Resolved, That the board of commissioners on fisheries and game is hereby directed to continue its investigation of the fish and fisheries of Buzzards bay, as provided by chapter one hundred and four of the resolves of the year nineteen hundred and thirteen, with particular reference to the quantities and spawning of edible and non-edible fish frequenting the bay. For this purpose the board may establish, operate and maintain fish traps or pounds, and may authorize others, under its direction, to do likewise; and may set, operate and maintain movable or stationary apparatus and boats for taking fish, and may take such other action as it may deem proper. The proceeds of the sale of fish taken under the provisions of this resolve shall be used in such manner as, in the discretion of said board will facilitate its investigation. The board shall report to the general court on or before the second Wednesday of January, in the year nineteen hundred and seventeen, the result of its investigation, with such recommendations as in its opinion may tend to perpetuate and increase the annual yield of useful fish in Buzzards bay and its tributaries. [*Approved March 29, 1916.*

SPECIAL REPORT RELATIVE TO THE BUZZARDS BAY FISHERIES.

Introduction.

In accord with the provisions of chapter 31, Resolves of 1916, the Commissioners on Fisheries and Game have continued the investigation of the fisheries of Buzzards Bay which was started in 1913. The authorization of the investigation without appropriation necessarily narrowed the sphere of activity to the collection of statistics from a limited number of fish traps. For this reason the present report is chiefly concerned with the statistics of trap fishing for the year 1916.

The same conclusions and recommendations made by this Commission in last year's report (House, No. 1775), in which the whole subject of fisheries of Buzzards Bay was carefully and thoroughly treated, apply with equal force to present conditions.

The Resolves of 1914, 1915 and 1916 continued the investigation of 1913 by stipulating that the Commissioners might establish, operate and maintain fish traps, or authorize others to do so under their direction, and that the proceeds from the sale of fish were to be used in such manner as to facilitate the investigation. These resolves did not essentially differ from those of 1913, except that the lack of an appropriation for carrying on the investigation proved a serious and permanent drawback to the value of the work. For this reason it is impossible to furnish from the records for 1914, 1915 and 1916 any further facts than the actual cost of operating the fish traps and the yield in fish, according to the figures returned to this office by the individual fishermen who had set traps under contract with the Commissioners on Fisheries and Game. Statistics showing the number of the different fish in Buzzards Bay for a long term of years would be of great value, as interpreting the possibilities of Buzzards Bay as a fishing ground and as an index of the general effect upon the Massachusetts fisheries of the large number of traps off Sakonnet Point in Rhode Island and farther south.

The investigation of 1916 has increased the statistical records of the catch in the fish traps, but has furnished no new information upon the spawning, food and abundance elsewhere of the fish frequenting this locality. As a rule, records for but two or three years are neither a true nor an accurate test of the fisheries, since fishing conditions are continually fluctuating. Only by a series of observations covering a period of ten to twenty years may satisfactory conclusions on trap fishing be reached. Many years of investigation are required before satisfactory solutions may be advanced for all the problems associated with it. Nevertheless, the statistical results of the past summer are presented with the hope that they will help, from a practical standpoint, to furnish an additional working basis for the proper management of the situation in Buzzards Bay.

Methods of Investigation. — Under the provisions of the investigation, the Commissioners on Fisheries and Game were given the power to permit certain traps to be placed in the waters of the bay, subject to their supervision. During 1916 nine traps, operated by six concerns, were located in the bay, in addition to the trap of the United States Bureau of Fisheries. The owners agreed to keep a true and lawful record of all species of fish taken, to report the same each week upon proper blanks provided by the Commission, to render each month a statement of the gross yield, and to pay 7 per cent. thereof to the Commonwealth for the special privilege. The traps were located, two on the east side and seven on the west side of the bay. At each records were made of the species taken, edible and non-edible, their number, weight and value, the number of young fish taken or destroyed, and the costs of maintaining and tending the traps. The following report contains the summarized records which were received from the trap fishermen: —

In 1916 traps were located as follows: —

(1) Marine Biological Laboratory, — at Woods Hole on the north shore of Uncatena Island.

(2) Obediah S. Daggett, — near Kettle Cove on the island of Naushon.

(3) William T. Dunn, — trap No. 1, west side of Clark's Cove, South Dartmouth.

(4) William T. Dunn, — trap No. 2, Ricketson's Point, South Dartmouth.

(5) Alvin T. Waite, — two traps, east side of Salter's Point, South Dartmouth.

(6) Benjamin T. Smith, — two traps, off Machaum, South Dartmouth.

(7) John R. Fish, Jr., — at Horseneck Beach, Westport.

Conclusions and Recommendations.

The conclusions and recommendations for 1916 are in general similar to those specified in the report for 1913, 1914 and 1915.

1. To obtain the full benefit of a closed season in Buzzards Bay, trap fishing off Sakonnet Point in Rhode Island should be restricted. The good results of restriction in Massachusetts are largely negatived at the present time, since they are not correlated with necessary restrictions elsewhere. To this end there should be Federal regulation of the taking of migratory fish, as the most practical means of preventing their exploitation.

The position of the Rhode Island traps is such that they offset to a great extent the benefit derived from reserving Buzzards Bay as a breeding place for migratory fish. The floating traps off Sakonnet and Newport extend at the present time nearly two-thirds the way across the entrance of Buzzards Bay, in the form of a triangle. These traps are so placed that the leader of one trap runs practically from the bowl of the next trap, making an unbroken line approximately ten miles in extent on each side of the triangle. The fish which escape these traps pass into Buzzards Bay through the openings from Vineyard Sound, or enter by the narrow strip of water outside the Rhode Island traps. It is also possible for some fish to escape capture directly by the Rhode Island traps. Considering the amount of scup taken on their eastern migration, these traps, through their numbers and location, are extremely detrimental to the Buzzards Bay fisheries, and to the value of Buzzards Bay as a breeding place for useful fish.

2. Menhaden fishing or other fishing on a large scale in the bay should not be allowed, but provision should be made whereby the lobster fishermen may obtain menhaden in reasonable and necessary quantities for bait.

3. The securing of a local supply of fresh fish is an important matter which should be given due consideration. The development of a retail fresh-fish trade in New Bedford, particularly in the disposal of the so-called worthless and predaceous fish, is beginning to assume large proportions. The education of the public is now under way. In but a few years numerous species now considered nonedible will form staple articles of diet. Some provision should be made to permit the taking and marketing

of this class of fish as a means of insuring a cheap food supply.

4. The alewife fishery, not only in Buzzards Bay, but of the entire Commonwealth, should be placed under uniform regulations, and proper steps taken to re-establish depleted streams. The remedy may be applied, first, by permitting a sufficient quantity of alewives to pass to the spawning grounds by removal of obstructions and provision of suitable fishways; and secondly, by placing spawning alewives in the ponds at the headwaters of the streams to restore extinct fisheries.

5. It has been demonstrated that trap fishing can be conducted at a profit in Buzzards Bay, but that it is not especially remunerative. It gives such promise that the trap fishermen under the investigation seem anxious to continue their fishing, and in certain cases even extend it into the winter. If trap fishing is permitted it will yield immediate returns to one class of fishermen and furnish a limited number of men with employment. If trap fishing is to be allowed it should be regulated by the Commonwealth, with uniform rules as to size of mesh, dimension of trap, etc., and a suitable rental should be paid each year for the privilege.

6. Buzzards Bay is an excellent breeding ground for fish. Its value lies in its favorable situation and suitability for their spawning, and in the production of a large supply of food. It is also valuable as a source of fish for market and for bait, as well as offering recreational fishing. The main problem resolves itself into the exact determination of how great a crop of fish may be taken annually from its waters without injuring the supply, and which methods may be most advantageously employed in catching the same.

Results of 1916 Investigation.

Financial Statement.

The number of traps in the bay is limited. Whether with a large number the experimental traps would yield less is problematical, but indications point to the fact that there would have been some diminution in the average catch. The records at best fluctuate annually, and should be considered of value only over a period of years.

The results of the year 1916 are given in the following table: —

	Number of Traps.	Number of Days Down.	Financial Returns.	State Revenue.
Obediah S. Daggett,	1	161	$1,014 28	$71 00
Marine Biological Laboratory,	1	185	1,106 00	77 42
William T. Dunn,	2	195	379 86	26 59
Alvin T. Waite,	2	169	661 43	46 30
Benjamin T. Smith,	2	224	924 29	64 70
John R. Fish, Jr.,	1	198	717 57	50 23
Total,	9	1,132	$4,803 43	$336 24

The following table gives a comparison of the returns for the past four years: —

Year.	Number of Traps.	Total Number of Days Set.	Value of Catch.	Revenue to State.	Average Gross Catch per Trap.
1913,	3	253	$570 60	–	$190 20
1914,	9	790	5,218 50	$365 29	579 83
1915,	11	1,344	5,011 77	350 82	455 61
1916,	9	1,132	4,803 43	336 24	533 72

Comparison of 1914, 1915 and 1916.

Owner of Trap.	Number.	Location.	1914.	1915.	1916.
B. T. Smith,	1[1]	Machaum, South Dartmouth,	$644 57	$728 09	$924 29
Alvin T. Waite,	1[1]	Salter's Point, Dartmouth,	478 43	522 00	661 43
William T. Dunn,	2	Ricketson's Point, Dartmouth.	343 14	161 00	379 86
Otis B. Luce,	1	Quisset Harbor,	1,760 06	824 48	–
Marine Biological Laboratory.	1	Uncatena,	922 44	405 29	1,106 00
Obediah S. Daggett,	1	Kettle Cove, Naushon,	–	400 00	1,014 28
John R. Fish, Jr.,	1	Horseneck Beach, Westport,	–	921 30	717 57

[1] One in 1914, two in 1915 and 1916.

STATISTICAL RECORDS OF NUMBER OF FISH IN BUZZARDS BAY TRAPS FOR 1916.

Common Edible Fish.

	April.	May.	June.	July.	August.	September.	October.	November.	Total.
O. S. Daggett,	–	330	8,496	19,733	14,221	2,285	823	–	45,888
Marine Biological Laboratory,	–	1,005	11,911	21,789	13,061	16,400	21,642	2,946	88,754
W. T. Dunn (trap 1),	1	167	5,512	7,778	1,258	7,011	–	–	21,727
W. T. Dunn (trap 2),	–	1,364	7,778	3,023	1,550	30,460	36,700	–	80,875
Alvin T. Waite (trap 1),	–	307	1,830	1,498	995	1,468	3,375	–	9,473
Alvin T. Waite (trap 2),	–	–	–	–	1,213	4,785	3,215	–	9,213
B. T. Smith (traps 1 and 2),	348	1,504	648	274	181	453	1,632	293	5,333
J. R. Fish, Jr.,	4	517	11,708	9,229	2,485	15,034	7,262	–	46,239
Total,	353	5,194	47,883	63,324	34,964	77,896	74,649	3,239	307,502

Rare Edible Fish.

O. S. Daggett,	–	–	26	2	–	3	2	–	33
Marine Biological Laboratory,	–	2	5	1	1	–	–	1	10
W. T. Dunn (trap 1),	–	30	–	–	–	–	–	–	30
W. T. Dunn (trap 2),	–	–	–	–	–	–	–	–	–
Alvin T. Waite (trap 1),	–	3	1	21	2	12	44	–	83
Alvin T. Waite (trap 2),	–	–	–	–	77	29	11	–	117
B. T. Smith (traps 1 and 2),	77	525	82	121	25	39	450	302	1,621
J. R. Fish, Jr.,	1	1	8	1	–	212	328	–	551
Total,	78	561	122	146	105	295	835	303	2,445

Bait Fish.

O. S. Daggett,	–	260	7,914	3,752	2,202	451	1,044	–	15,623
Marine Biological Laboratory,	–	12,201	3,316	878	1,507	2,001	5,313	173	25,389
W. T. Dunn (trap 1),	27,751	3,480	850	–	–	–	–	–	32,081
W. T. Dunn (trap 2),	–	1,200	1,006	–	–	–	–	–	2,206
Alvin T. Waite (trap 1),	–	2,295	2,580	276	276	197	1,148	–	6,772
Alvin T. Waite (trap 2),	–	–	–	–	180	37	1,198	–	1,415
B. T. Smith (traps 1 and 2),	7,245	12,060	2,849	2,215	1,192	265	2,004	6,830	34,660
J. R. Fish, Jr.,	4,348	20,124	47,700	1,392	12,514	10,038	11,889	–	108,005
Total,	39,344	51,620	66,215	8,513	17,871	12,989	22,596	7,003	226,151

Predaceous Fish.

O. S. Daggett,	–	487	989	147	68	47	194	–	1,932
Marine Biological Laboratory,	–	2,797	606	126	121	10	118	7	3,785
W. T. Dunn (trap 1),	40	326	21	3	2	–	9	–	401
W. T. Dunn (trap 2),	–	240	37	16	–	–	46	–	339
Alvin T. Waite (trap 1),	–	502	177	29	132	126	432	–	1,398
Alvin T. Waite (trap 2),	–	–	–	–	120	210	202	–	532
B. T. Smith (traps 1 and 2),	64	235	530	376	273	430	519	243	2,670
J. R. Fish, Jr.,	269	482	113	26	38	92	414	–	1,434
Total,	373	5,069	2,473	723	754	915	1,934	250	12,491

Worthless Fish.

	April.	May.	June.	July.	August.	September.	October.	November.	Total.
O. S. Daggett,	–	106	646	79	70	31	99	–	1,031
Marine Biological Laboratory,	–	106	312	33	25	–	8	13	497
W. T. Dunn (trap 1),	11	10	–	–	–	–	–	–	21
W. T. Dunn (trap 2),	–	–	–	–	–	–	100	–	100
Alvin T. Waite (trap 1),	–	–	–	–	–	–	–	–	–
Alvin T. Waite (trap 2),	–	–	–	–	–	–	–	–	–
B. T. Smith (traps 1 and 2),	–	–	32	–	–	–	–	–	32
J. R. Fish, Jr.,	–	–	–	–	–	–	–	–	–
Total,	11	222	990	112	95	31	207	13	1,681

Obediah S. Daggett.

Common Edible Fish.

	May.	June.	July.	August.	September.	October.	Total.
Hauls of trap,	4	21	16	17	14	18	90
Days trap down,	8	30	31	31	30	31	161
Sea bass,	26	144	110	–	–	–	280
Butterfish: —							
Large,	16	593	11,829	10,906	412	80	23,827
Small,	–	10	143	–	–	450	603
Unmarketable,	–	–	353	1,560	840	–	2,753
Total,	16	603	12,316	12,466	1,252	530	27,183
Flounder: —							
Summer,	1	88	68	61	60	27	305
Winter,	–	58	–	–	–	–	58
Sand dab,	–	3	18	24	–	–	45
Total,	1	149	86	85	60	27	408
Hake,	45	167	–	–	–	118	330
Mackerel: —							
Large,	–	281	–	–	–	–	281
Medium,	–	62	–	–	–	–	62
Small,	–	388	3,105	1,497	189	69	5,248
Tinker,	–	124	–	–	660	60	844
Total,	–	855	3,105	1,497	849	129	6,435
Scup: —							
Large,	30	515	308	–	–	–	853
Small,	190	5,462	3,754	86	115	–	9,607
Unmarketable,	–	530	10	61	–	–	601
Total,	220	6,507	4,072	147	115	–	11,061
Tautog,	22	71	44	26	9	19	191
Grand total,	330	8,496	19,733	14,221	2,285	823	45,888

Rare Edible Fish.

	June.	July.	September.	October.	Total.
Hauls of trap,	21	16	14	18	90
Days trap down,	30	31	30	31	161
Striped bass,	3	–	–	–	3
Bluefish,	14	1	–	–	15
Bonito,	–	1	–	–	1
Pollock,	3	–	–	–	3
Squeteague,	6	–	3	1	10
Kingfish,	–	–	–	1	1
Total,	26	2	3	2	33

Obediah S. Daggett — Concluded.

Bait Fish.

	May.	June.	July.	August.	September.	October.	Total.
Hauls of trap,	4	21	16	17	14	18	90
Days trap down,	8	30	31	31	30	31	161
Alewife,	260	100	–	–	–	–	360
Glut herring,	–	–	–	–	–	–	–
Menhaden,	–	15	4	9	22	12	62
Hickory shad,	–	–	–	–	–	12	12
Squid,	–	1,048	180	120	118	225	1,591
Whiting,	–	6,851	3,568	2,073	311	795	13,598
Total,	260	7,914	3,752	2,202	451	1,044	15,623

Predaceous Fish.

Hauls of trap,	4	21	16	17	14	18	90
Days trap down,	8	30	31	31	30	31	161
Smooth dogfish,	10	318	111	40	18	22	519
Spiny dogfish,	385	387	–	–	–	–	772
Sand shark,	–	22	20	5	5	4	56
Dusky shark,	–	–	4	11	4	5	24
Hammerhead shark,	–	–	1	–	–	–	1
Thrasher shark,	–	–	2	7	2	2	13
Summer skate,	14	82	–	–	7	10	113
Barndoor skate,	57	82	1	–	–	74	214
Large sting ray,	–	2	5	4	5	–	16
Goosefish,	21	96	3	1	6	77	204
Total,	487	989	147	68	47	194	1,932

Worthless Fish.

Cunner,	–	61	40	51	23	20	195
Swellfish,	–	23	–	–	–	–	23
Sculpin,	–	89	3	17	–	45	154
Common sea robin,	106	447	33	2	8	34	630
Striped sea robin,	–	26	3	–	–	–	29
Total,	106	646	79	70	31	99	1,031

Marine Biological Laboratory.

Common Edible Fish.

	May.	June.	July.	August.	September.	October.	November.	Total.
Hauls of trap,	19	27	30	22	17	19	6	130
Days trap down,	23	30	31	31	30	31	9	185
Sea bass,	17	15	18	–	–	–	–	50
Butterfish: —								
Large,	–	1,283	8,400	1,340	96	–	–	11,119
Small,	–	12	20	–	30	72	33	167
Unmarketable,	–	150	–	2,000	–	–	–	2,150
Total,	–	1,445	8,420	3,340	126	72	33	13,436
Flounder: —								
Summer,	8	20	30	118	68	35	–	279
Four spotted,	–	25	23	–	–	–	–	48
Total,	8	45	53	118	68	35	–	327
Hake,	13	5	–	–	–	33	13	64
Mackerel: —								
Large,	–	275	11	–	–	–	–	286
Medium,	7	11	4	–	–	–	–	22
Small,	–	274	–	–	–	–	–	274
Tinker,	–	1,851	10,400	9,560	16,200	21,500	2,900	62,411
Total,	7	2,411	10,415	9,560	16,200	21,500	2,900	62,993
Scup: —								
Large,	–	3,000	979	38	–	–	–	4,017
Small,	721	347	–	–	6	–	–	1,074
Unmarketable,	–	4,600	1,900	–	–	–	–	6,500
Total,	721	7,947	2,879	38	6	–	–	11,591
Tautog,	239	43	4	5	–	2	–	293
Grand total,	1,005	11,911	21,789	13,061	16,400	21,642	2,946	88,754

Rare Edible Fish.

Hauls of trap,	19	27	20	22	17	19	6	130
Days trap down,	23	30	31	31	30	31	9	185
Bluefish,	–	5	–	–	–	–	–	5
Bonito,	–	–	–	1	–	–	–	1
Cod,	–	–	–	–	–	–	1	1
Pollock,	–	–	1	–	–	–	–	1
Kingfish,	1	–	–	–	–	–	–	1
Eel, common,	1	–	–	–	–	–	–	1
Total,	2	5	1	1	–	–	1	10

Marine Biological Laboratory — Continued.

Bait Fish.

	May.	June.	July.	August.	September.	October.	November.	Total.
Hauls of trap,	19	27	20	22	17	19	6	130
Days trap down,	23	30	31	31	30	31	9	185
Alewife,	8,003	777	129	93	–	40	27	9,069
Glut herring,	–	27	–	–	–	–	–	27
Sea herring,	3	–	–	–	–	–	–	3
Round herring,	–	–	–	–	1,234	4,600	–	5,834
Menhaden,	93	81	24	20	–	–	–	218
Hickory shad,	2	27	2	–	–	–	–	31
Squid,	4,100	2,300	593	756	433	590	126	8,898
Whiting,	–	104	130	638	334	83	20	1,309
Total,	12,201	3,316	878	1,507	2,001	5,313	173	25,389

Predaceous Fish.

Hauls of trap,	19	27	20	22	17	19	6	130
Days trap down,	23	30	31	31	30	31	9	185
Smooth dogfish,	–	262	107	117	8	–	–	494
Spiny dogfish,	2,724	229	1	–	55	–	–	3,009
Sand shark,	–	4	4	3	–	–	–	11
Dusky shark,	–	–	–	–	1	–	–	1
Summer skate,	4	–	3	1	1	6	–	15
Winter skate,	59	109	9	–	1	25	4	207
Barndoor skate,	9	2	–	–	–	12	3	26
Large sting ray,	–	–	2	–	–	–	–	2
Goosefish,	1	–	–	–	–	19	–	20
Total,	2,797	606	126	121	10	118	7	3,785

Marine Biological Laboratory — Concluded.

Worthless Fish.

	May.	June.	July.	August.	September.	October.	November.	Total.
Hauls of trap,	19	27	20	22	17	19	6	130
Days trap down,	23	30	31	31	30	31	9	185
Cunner,	4	6	–	–	–	–	–	10
Swellfish,	–	33	1	1	–	–	–	35
Lumpfish,	3	–	–	–	–	–	–	3
Sculpin,	14	18	–	–	–	8	13	43
Common sea robin,	85	251	32	22	–	–	–	400
Striped sea robin,	–	4	–	2	–	–	–	6
Total,	106	312	33	25	–	8	13	497

Rare Fish during Season.

Sturgeon,	1	Yellow crevalle,	1
Torpedo ray	1	Crevalle,	28
Rudder fish,	9	Spade fish,	1
Spanish mackerel,	1	Big-eyed scad,	1
Pilot fish,	1		

William T. Dunn (Trap 1).

Common Edible Fish.

	April.	May.	June.	July.	August.	September.	October.	Total.
Hauls of trap,	7	11	12	12	9	11	3	65
Days trap down,	11	31	30	31	31	30	9	173
Butterfish:								
Large,	–	–	530	–	–	–	–	530
Small,	–	–	403	50	–	–	–	453
Unmarketable,	–	–	–	20	–	–	–	20
Flounders, summer,	–	–	2	108	11	–	–	121
Mackerel: —								
Large,	–	–	–	–	–	–	–	–
Small,	–	–	–	–	–	5,586	–	5,586
Tinker,	–	–	4,250	7,600	1,247	1,425	–	14,522
Scup, unmarketable,	–	–	237	–	–	–	–	237
Tautog,	1	167	90	–	–	–	–	258
Total,	1	167	5,512	7,778	1,258	7,011	–	21,727

William T. Dunn (Trap 1) — Continued.

Rare Edible Fish.

	April.	May.	June.	July.	August.	September.	October.	Total.
Hauls of trap,	7	11	12	12	9	11	3	65
Days trap down,	11	31	30	31	31	30	9	173
Eel, common,	–	30	–	–	–	–	–	30
Total,	–	30	–	–	–	–	–	30

Bait Fish.

Hauls of trap,	7	11	12	12	9	11	3	65
Days trap down,	11	31	30	31	31	30	9	173
Alewife,	51	490	–	–	–	–	–	541
Glut herring,	27,700	800	–	–	–	–	–	28,500
Squid,	–	2,190	850	–	–	–	–	3,040
Total,	27,751	3,480	850	–	–	–	–	32,081

Predaceous Fish.

	April.	May.	June.	July.	August.	October.	Total.
Hauls of trap,	7	11	12	12	9	3	65
Days trap down,	11	31	30	31	31	9	173
Smooth dogfish,	–	–	9	–	2	–	11
Spiny dogfish,	–	77	–	–	–	–	77
Sand shark,	–	–	–	–	–	–	–
Thrasher shark,	–	–	–	1	–	–	1
Summer skate	40	–	4	2	–	9	55
Winter skate,	–	249	8	–	–	–	257
Barndoor skate,	–	–	–	–	–	–	–
Total,	40	326	21	3	2	9	401

William T. Dunn (Trap 1) — Concluded.

Worthless Fish.

	April.	May.	June.	July.	August.	September.	October.	Total.
Hauls of trap,	7	11	12	12	9	11	3	65
Days trap down,	11	31	30	31	31	30	9	173
Sculpin,	11	10	–	–	–	–	–	21
Total,	11	10	–	–	–	–	–	21

William T. Dunn (Trap 2).

Common Edible Fish.

	May.	June.	July.	August.	September.	October.	Total.
Hauls of trap,	3	11	12	8	12	11	57
Days trap down,	7	30	31	31	30	31	160
Sea bass,	–	–	–	–	–	–	–
Butterfish: —							
Large,	500	2,500	–	–	–	–	3,000
Small,	857	4,615	385	284	–	–	6,141
Total,	1,357	7,115	385	284	–	–	9,141
Flounder, summer,	–	6	7	2	–	–	15
Mackerel: —							
Large,	–	1	–	–	–	–	1
Small,	–	–	–	–	21,360	–	21,360
Tinker,	–	652	2,631	1,264	9,100	36,700	50,347
Total,	–	653	2,631	1,264	30,460	36,700	71,707
Scup: —							
Large,	3	–	–	–	–	–	3
Small,	–	1	–	–	–	–	1
Total,	3	1	–	–	–	–	4
Tautog,	4	3	–	–	–	–	7
Grand total,	1,364	7,778	3,023	1,550	30,460	36,700	80,875

William T. Dunn (Trap 2) — Concluded.

Bait Fish.

	May.	June.	Total.
Hauls of trap,	3	11	57
Days trap down,	7	30	160
Menhaden,	1,200	6	1,206
Squid,	–	1,000	1,000
Total,	1,200	1,006	2,206

Predaceous Fish.

	May.	June.	July.	October.	Total.
Hauls of trap,	3	11	12	11	57
Days trap down,	7	30	31	31	160
Smooth dogfish,	–	32	11	–	43
Spiny dogfish,	180	–	–	–	180
Dusky shark,	–	–	4	–	4
Thrasher,	–	3	1	–	4
Summer skate,	–	2	–	42	44
Winter skate,	60	–	–	–	60
Large sting ray,	–	–	–	4	4
Total,	240	37	16	46	339

Worthless Fish.

	October.
Sculpin,	100

Alvin T. Waite (Trap 1).

Common Edible Fish.

	May.	June.	July.	August.	September.	October.	Total.
Hauls of trap,	10	15	12	9	6	8	60
Days trap down,	16	30	31	31	30	31	169
Sea bass,	–	–	–	–	–	–	–
Butterfish: —							
Large,	–	470	–	–	58	–	528
Small,	10	1,100	16	85	195	67	1,473
Total,	10	1,570	16	85	253	67	2,001
Flounder, summer,	–	75	1,369	298	335	154	2,231
Hake,	–	–	–	–	–	85	85
Mackerel: —							
Large,	–	5	–	–	–	–	5
Medium,	–	47	–	250	–	275	572
Small,	–	46	79	302	880	2,790	4,157
Total,	–	98	79	552	880	3,065	4,734
Scup: —							
Large,	–	2	–	–	–	–	2
Small,	–	4	18	–	–	–	22
Total,	–	6	18	–	–	–	24
Tautog,	297	81	16	–	–	4	398
Grand total,	307	1,830	1,498	995	1,468	3,375	9,473

Rare Edible Fish.

Hauls of trap,	10	15	12	9	6	8	60
Days trap down,	16	30	31	31	30	31	169
Bluefish,	–	1	19	–	–	38	58
Cod,	–	–	–	–	–	1	1
Shad,	3	–	–	–	–	–	3
Squeteague,	–	–	2	2	12	2	18
Kingfish,	–	–	–	–	–	3	3
Total,	3	1	21	2	12	44	83

Alvin T. Waite (Trap 1) — Concluded.

Bait Fish.

	May.	June.	July.	August.	September.	October.	Total.
Hauls of trap,	10	15	12	9	6	8	60
Days trap down,	16	30	31	31	30	31	169
Alewife,	1,850	50	–	–	–	–	1,900
Sea herring,	–	–	12	–	–	25	37
Menhaden,	–	–	–	101	112	223	436
Hickory shad,	–	60	–	40	10	–	110
Squid,	445	2,020	–	–	–	–	2,465
Whiting,	–	450	264	135	75	900	1,824
Total,	2,295	2,580	276	276	197	1,148	6,772

Predaceous Fish.

Hauls of trap,	10	15	12	9	6	8	60
Days trap down,	16	30	31	31	30	31	169
Smooth dogfish,	–	22	23	121	–	–	166
Spiny dogfish,	222	81	–	–	10	296	609
Sand shark,	–	–	4	–	–	–	4
Mackerel shark,	–	–	2	3	–	–	5
Dusky shark,	–	–	–	8	2	–	10
Thrasher,	–	–	–	–	4	–	4
Summer skate,	232	34	–	–	35	55	356
Winter skate,	–	–	–	–	75	60	135
Sharp-nosed ray,	48	40	–	–	–	21	109
Total,	502	177	29	132	126	432	1,398

Alvin T. Waite (Trap 2).

Common Edible Fish.

	August.	September.	October.	Total.
Hauls of trap,	8	6	7	21
Days trap down,	31	30	31	92
Butterfish:				
Large,	20	–	–	20
Small,	313	460	22	795
Total,	333	460	22	815
Bluefish,	–	65	20	85
Flounder, summer,	280	340	111	731
Hake,	–	–	57	57
Mackerel: —				
Large,	–	–	–	–
Medium,	–	–	150	150
Small,	550	3,700	2,855	7,105
Tinker,	50	220	–	270
Total,	600	3,920	3,005	7,425
Soup, large,	–	–	–	–
Tautog,	–	–	–	–
Grand total,	1,213	4,785	3,215	9,213

Rare Edible Fish.

Hauls of trap,	8	6	7	21
Days trap down,	31	30	31	92
Striped bass,	–	25	–	25
Pollock,	70	–	–	70
Squeteague,	7	4	11	22
Total,	77	29	11	117

Alvin T. Waite (Trap 2) — Concluded.

Bait Fish.

	August.	September.	October.	Total.
Hauls of trap,	8	6	7	21
Days trap down,	31	30	31	92
Menhaden,	20	37	–	57
Hickory shad,	30	–	98	128
Whiting,	130	–	1,100	1,230
Total,	180	37	1,198	1,415

Predaceous Fish.

Hauls of trap,	8	6	7	21
Days trap down,	31	30	31	92
Smooth dogfish,	105	10	18	133
Spiny dogfish,	–	–	80	80
Sand shark,	–	2	2	4
Dusky shark,	5	1	–	6
Thrasher shark,	–	2	–	2
Summer skate,	10	22	53	85
Winter skate,	–	170	–	170
Sharp-nosed ray,	–	3	7	10
Goosefish,	–	–	42	42
Total,	120	210	202	532

Benj. T. Smith.

Common Edible Fish.

	April.	May.	June.	July.	August.	September.	October.	November.	Total.
Hauls of trap,	11	17	14	13	9	10	18	12	104
Days trap down,	20	31	30	31	31	30	31	20	224
Sea bass,	–	–	–	–	–	–	–	–	–
Butterfish: —									
Large,	–	45	253	–	10	30	82	–	420
Small,	–	–	–	–	–	–	–	–	–
Unmarketable,	–	–	–	–	–	–	–	–	–
Total,	–	45	253	–	10	30	82	–	420
Flounder: —									
Summer,	247	145	332	237	137	143	155	290	1,686
Winter,	–	–	–	–	–	–	–	–	–
Four spotted,	64	1,055	–	–	–	–	–	–	1,119
Sand dab,	7	–	–	–	–	–	–	–	7
Total,	318	1,200	332	237	137	143	155	290	2,812
Hake,	–	–	–	–	–	–	10	3	13
Mackerel: —									
Large,	–	–	45	–	1	–	–	–	46
Medium,	–	–	–	–	–	–	–	–	–
Small,	–	–	–	–	30	–	–	–	30
Tinker,	–	–	–	–	–	280	1,394	–	1,664
Total,	–	–	45	–	31	280	1,394	3	1,753
Scup: —									
Large,	–	–	–	25	–	–	–	–	25
Small,	–	–	–	–	–	–	–	–	–
Unmarketable,	–	–	–	–	–	–	–	–	–
Total,	–	–	–	25	–	–	–	–	25
Tautog,	30	259	18	12	3	–	1	–	323
Grand total,	348	1,504	648	274	181	453	1,632	293	5,333

Rare Edible Fish.

Hauls of trap,	11	17	14	13	9	10	18	12	104
Days trap down,	20	31	30	31	31	30	31	20	224
Striped bass,	–	–	4	14	–	–	–	–	18
Common shad,	1	–	–	–	–	–	–	–	1
Squeteague,	–	–	18	25	15	33	14	–	105
Kingfish,	–	–	1	–	–	–	–	–	1
Smelt,	–	184	–	–	–	–	–	–	184
Eel, common,	45	290	15	38	10	6	432	300	1,136
Eel, conger,	–	3	–	–	–	–	4	2	9
Total,	77	525	82	121	25	39	450	302	1,621

Benj. T. Smith — Concluded.

Bait Fish.

	April.	May.	June.	July.	August.	September.	October.	November.	Total.
Hauls of trap,	11	17	14	13	9	10	18	12	104
Days trap down,	20	31	30	31	31	30	31	20	224
Alewife,	7,170	10,900	1,184	1,525	1,125	–	–	–	21,904
Glut herring,	–	–	–	–	–	–	230	650	880
Sea herring,	–	–	–	–	–	–	–	–	–
Menhaden,	–	–	–	–	28	100	–	–	128
Hickory shad,	–	35	450	670	19	165	309	–	1,648
Squid,	–	900	1,215	–	–	–	–	–	2,115
Tomcod,	75	225	–	20	20	–	180	905	1,425
Whiting,	–	–	–	–	–	–	1,285	5,275	6,560
Total,	7,245	12,060	2,849	2,215	1,192	265	2,004	6,830	34,660

Predaceous Fish.

Hauls of trap,	11	17	14	13	9	10	18	12	104
Days trap down,	20	31	30	31	31	30	31	20	224
Smooth dogfish,	–	–	317	175	137	207	10	20	866
Spiny dogfish,	–	–	12	–	–	–	–	70	82
Sand shark,	–	–	–	27	7	–	–	–	34
Summer skate,	51	153	187	174	129	223	492	143	1,552
Winter skate,	–	66	–	–	–	–	–	–	66
Barndoor skate,	–	–	–	–	–	–	–	–	–
Sharp-nosed ray,	13	16	1	–	–	–	3	10	43
Goosefish,	–	–	13	–	–	–	14	–	27
Total,	64	235	530	376	273	430	519	243	2,670

John R. Fish.

Common Edible Fish.

	April.	May.	June.	July.	August.	September.	October.	Total.
Hauls of trap,	8	14	18	14	19	16	12	101
Days trap down,	14	31	30	31	31	30	31	198
Sea bass,	–	1	2	–	–	–	–	3
Butterfish: —								
Large,	–	170	4,577	1,893	332	194	28	7,194
Small,	–	248	–	–	–	–	–	248
Unmarketable,	–	–	–	4,314	–	–	–	4,314
Total,	–	418	4,577	6,207	332	194	28	11,756
Flounder: —								
Summer,	–	5	13	94	66	117	4	299
Sand dab,	–	3	–	–	–	–	–	3
Total,	–	8	13	94	66	117	4	302
Hake,	–	–	–	–	–	–	–	–
Mackerel: —								
Large,	–	17	25	–	–	–	–	42
Small,	–	1	1,052	–	–	–	–	1,053
Tinker,	–	–	5,958	2,901	2,087	14,723	7,230	32,899
Total,	–	18	7,035	2,901	2,087	14,723	7,230	33,994
Scup: —								
Large,	–	5	50	26	–	–	–	81
Small,	–	8	12	–	–	–	–	20
Total,	–	13	62	26	–	–	–	101
Tautog,	4	59	19	1	–	–	–	83
Grand total,	4	517	11,708	9,229	2,485	15,034	7,262	46,239

Rare Edible Fish.

Hauls of trap,	8	14	18	14	19	16	12	101
Days trap down,	14	31	30	31	31	30	31	198
Bluefish,	–	–	1	–	–	212	326	539
Shad,	1	1	2	–	–	–	1	5
Squeteague,	–	–	5	1	–	–	1	7
Total,	1	1	8	1	–	212	328	551

John R. Fish — Concluded.

Bait Fish.

	April.	May.	June.	July.	August.	September.	October.	Total.
Hauls of trap,	8	14	18	14	19	16	12	101
Days trap down,	14	31	30	31	31	30	31	198
Alewife,	4,346	3,781	300	–	210	–	–	8,637
Glut herring,	–	3,856	154	–	–	–	100	4,110
Sea herring,	1	13	–	–	–	–	–	14
Menhaden,	1	–	–	–	–	–	–	1
Hickory shad,	–	2	97	1	34	–	–	134
Squid,	–	12,470	45,649	942	4,177	7,983	5,316	76,537
Tomcod,	–	–	–	–	–	–	–	–
Whiting,	–	2	1,500	499	8,093	2,055	6,473	18,572
Total,	4,348	20,124	47,700	1,392	12,514	10,038	11,889	108,005

Predaceous Fish.

Hauls of trap,	8	14	18	14	19	16	12	101
Days trap down,	14	31	30	31	31	30	31	198
Smooth dogfish,	–	186	58	16	27	54	141	482
Spiny dogfish,	–	–	–	–	–	–	–	–
Sand shark,	–	–	–	3	9	4	1	17
Hammerhead shark,	–	–	–	–	2	–	–	2
Summer skate,	156	75	–	7	–	–	–	238
Winter skate,	77	63	–	–	–	–	–	140
Barndoor skate,	7	3	–	–	–	16	26	52
Sharp-nosed ray,	28	93	24	–	–	–	15	160
Large sting ray,	–	–	–	–	–	–	–	–
Goosefish,	1	62	31	–	–	18	231	343
Total,	269	482	113	26	38	92	414	1,434

Worthless Fish.

Hauls of trap,	8	14	18	14	19	16	12	101
Days trap down,	14	31	30	31	31	30	31	198
Common sea robin,	–	–	32	–	–	–	–	32
Total,	–	–	32	–	–	–	–	32

20990

END OF
TITLE